

# Aquarius Multi-Station Parameter Summary Reports

To view a video demonstration of what is written here, click the hyperlink in the box below.

<http://nrdata.nps.gov/programs/water/aquarius/Videos/SummaryReport/SummaryReport.html>

This document demonstrates how to use an Aquarius Reporting Toolbox and a custom Report Template (NPS MultiLocation Statistics Report (No Aggregation)) to generate a report showing the parameters/datasets measured at one or more Locations along with their period of record descriptive statistics. The report also includes a time series plot for each parameter dataset.

This tutorial assumes you are either familiar with Aquarius and/or have read the Springboard [overview document](#) or watched the [video demonstration](#).

To begin, select one or more locations from a Location's organization folder. Note: hold down the 'Ctrl' key and click a Location to select more than one Location. You can also hold down the 'Shift' key and click start and end Locations to select multiple Locations in sequence. If the Locations exist in different folders (e.g. different projects or different parks/networks) then move one folder up the hierarchy to select the Locations. All Locations also appear under the National Park Service folder.

AQUARIUS Springboard - Windows Internet Explorer

http://inp2300fvcgett1.nps.doi.net/AQUARIUS/Springboard/Default.aspx?id=2&token=6a319ef95b59b5d8

★ Favorites ★ Web Slice Gallery

AQUARIUS Springboard

Data Sets Button

Location Folders

- All Locations
- Recent Locations

National Park Service

- AA DEMOTEST
- Arctic Network
- Cape Cod National Seashore
  - Catoclin Mountain Park
- Central Alaska Network
- Cumberland Piedmont Network
- Death Valley National Park
- Devils Tower National Monument
- Eastern Rivers and Mountains Network
- Everglades National Park
- Golden Gate National Recreation Area
- Grand Canyon National Park
- Grand Teton National Park
- Grant-Kohrs Ranch National Historic Site
- Great Lakes Network
- Great Smoky Mountains National Park
- Gulf Coast Network
- Mid-Atlantic Network
- Mojave Desert Network

Locations

Drag a column here to group by that column

Location Identifier	Location Name	Location Type
GRSM_BD_RCST	Rock Creek Stream Site	River/Stream
GRSM_BD_RPST	Road Prong Stream Site	River/Stream
GRSM_BD_WCST	Walker Camp Stream Site	River/Stream
GRSM_EPA_ERST	Eagle Rocks Prong Stream Site	River/Stream
GRSM_EPA_MPST	Middle Prong Stream Site	River/Stream
GRSM_EPA_RPST	Ramsey Prong Stream Site	River/Stream

Visits Log

No visits for the selected locations

Total locations: 388


About Logged in: dtucker

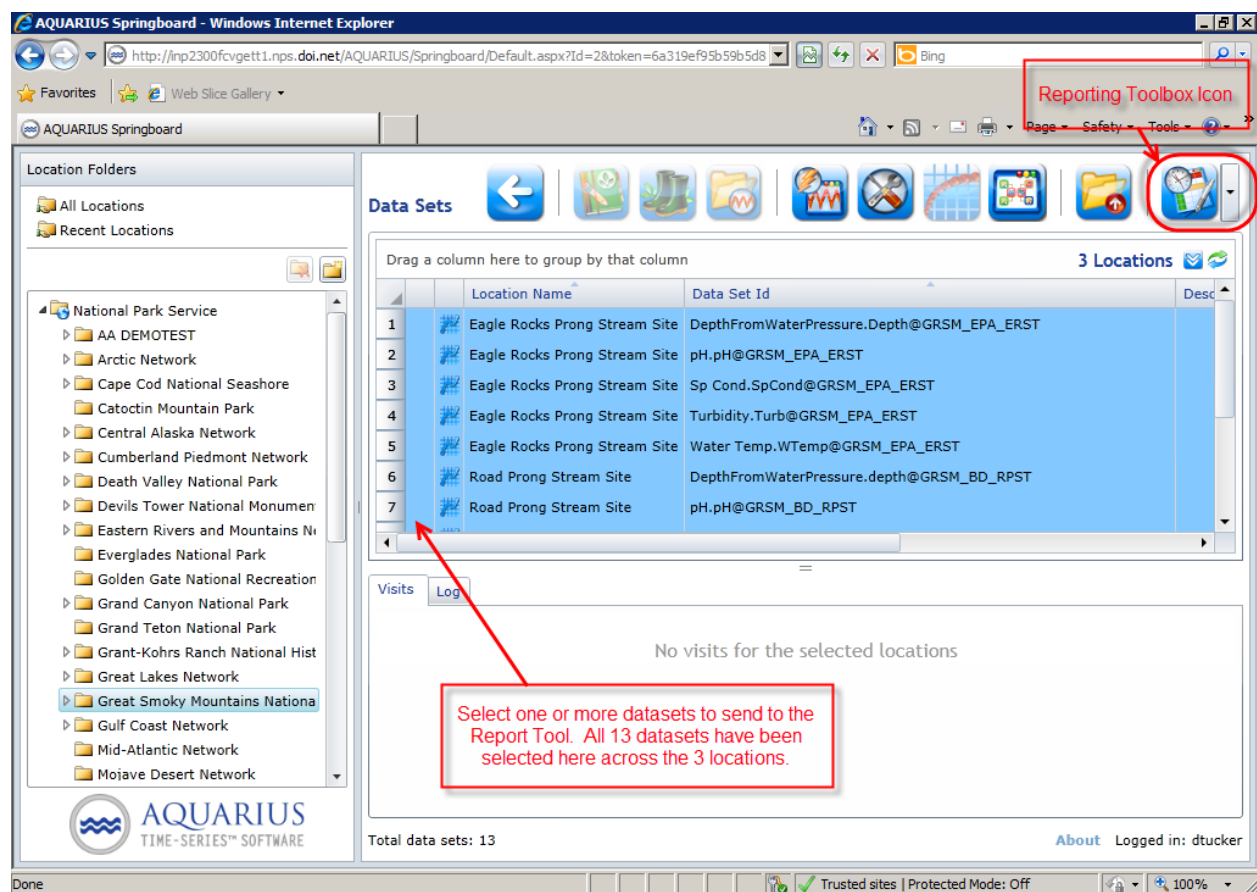
Done

Trusted sites | Protected Mode: Off

100%

In the example above, three Locations have been selected from two projects in the Great Smoky Mountains National Park folder. To select Locations from two separate projects, however, the Locations had to be selected from the parent Great Smoky Mountains National Park folder.

Once the Locations are selected, click the big blue right-pointing arrow () to see a list of Data Sets at the selected Locations. Select one or more datasets (using the 'Ctrl' and/or 'Shift' keys to select more than one dataset) to send to the Reporting Toolbox. In the example below, all 13 datasets have been selected.



The screenshot shows the AQUARIUS Springboard interface in a Windows Internet Explorer browser. The left sidebar displays a tree view of location folders, with 'Great Smoky Mountains National Park' selected. The main content area shows a table of data sets for 3 locations. A red box in the top right corner highlights the 'Reporting Toolbox Icon'. A red arrow points to the 'Visits' tab, and a red box contains the text: 'Select one or more datasets to send to the Report Tool. All 13 datasets have been selected here across the 3 locations.'


	Location Name	Data Set Id	Desc
1	Eagle Rocks Prong Stream Site	DepthFromWaterPressure.Depth@GRSM_EPA_ERST	
2	Eagle Rocks Prong Stream Site	pH.pH@GRSM_EPA_ERST	
3	Eagle Rocks Prong Stream Site	Sp Cond.SpCond@GRSM_EPA_ERST	
4	Eagle Rocks Prong Stream Site	Turbidity.Turb@GRSM_EPA_ERST	
5	Eagle Rocks Prong Stream Site	Water Temp.WTemp@GRSM_EPA_ERST	
6	Road Prong Stream Site	DepthFromWaterPressure.depth@GRSM_BD_RPST	
7	Road Prong Stream Site	pH.pH@GRSM_BD_RPST	

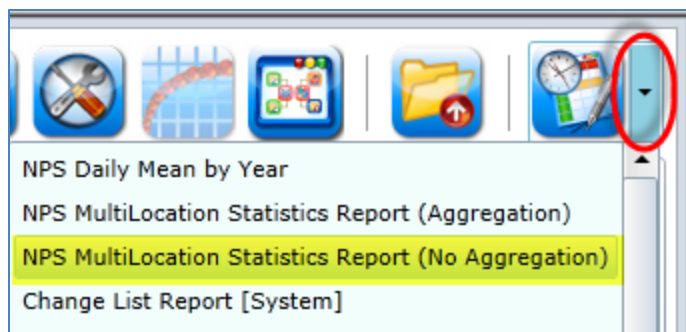
Visits Log

No visits for the selected locations

Total data sets: 13

About Logged in: dtucker

Click the drop-down arrow to the right of the Reporting Toolbox icon () and select 'NPS MultiLocation Statistics Report (No Aggregation)'.



This will send the selected datasets to the Reporting Toolbox. Depending on the number of datasets selected and the quantity of data, it may take a moment for the Reporting Toolbox to appear.

**Reporting Toolbox - Production Mode**

Mode Report Help

Choose Template / Report

NPS MultiLocation Statistics Report (No Aggregation)

Select one or more locations and one or more parameters to generate statistics and graph

Inputs

DepthFromWaterPressure.Depth...  
pH.pH@GRSM\_EPA\_ERST  
Sp Cond.SpCond@GRSM\_EPA\_ERST  
Turbidity.Turb@GRSM\_EPA\_ERST  
Water Temp.WTemp@GRSM\_EPA...  
DepthFromWaterPressure.depth

General Info.

Identifier	DepthFromWaterPressure.Depth@GRS
Label	Depth
Description	
Comment	

Time

Report Parameters

Time Series (1/1)

Time Range

☐ Most Recent 6 Months ☒ From Calendar ☐ From Data

☒ Entire Range

☐ Time Range From: 2013-Jul -12 15:15:45 To: 2013-Jul -12 15:15:45

Format

Apply View: <none> Precision: 3 ☒ Decimal Places ☐ Sig. Figures

Compute Totals In: Symbol for Missing Data: \*

Report Properties

Format: pdf

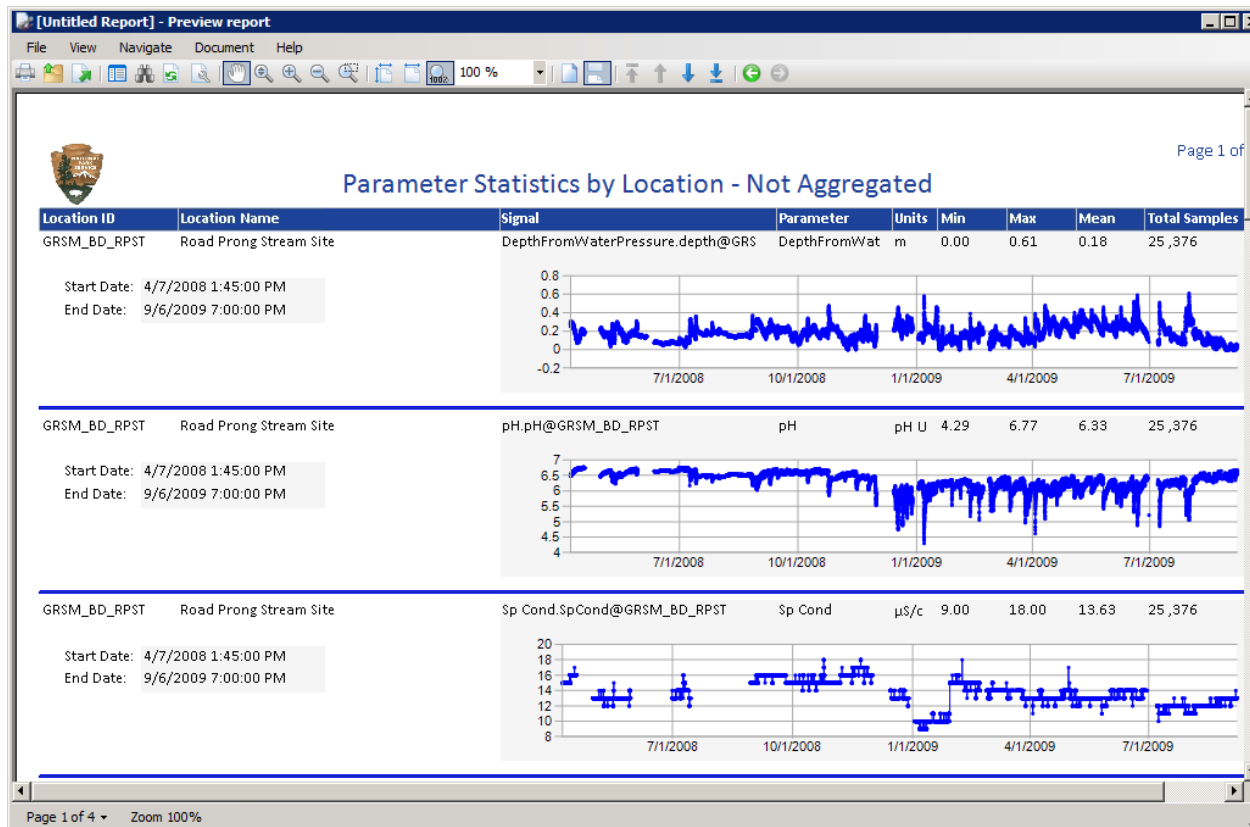
Name: [Untitled Report] Visible: ☒ Only Me ☐ All Users

Description:

Comment: Entire Signal

Preview Run

Click the 'Preview' button at the bottom (or press the 'F5' key) and Aquarius will generate the report using the default settings. Depending on the number of datasets selected, the number of observations in each dataset, and whether aggregation was selected for the time series graphic, it may take some time for the report to appear.



The report provides, by location, the min, max, mean, and total number of samples over the period of record. It also provides a time series plot for each parameter. In this example, the report describes 13 datasets spread across the four pages of the report. Each dataset here has either 25 or 50 thousand results. With so many results in the time series graphs, it can get sluggish moving from page to page in the 'Preview report' window. To save this report as a PDF file from within the 'Preview report' window, select 'File' and then 'Export'.

When done viewing the report or using the Reporting Toolbox, click (X) to exit.



Note: There are two reports, NPS MultiLocation Statistics Report (No Aggregation) and NPS MultiLocation Statistics Report (Aggregation). What's the difference? The only difference in the two reports is in the time series graphic. In the 'No Aggregation' report, the values plotted on the graph are all the actual (corrected) values in the dataset. In the 'Aggregation' report, the values that are plotted are aggregated into daily means. Consequently, the 'Aggregation' report is faster (less sluggish) since the graphs don't contain all the results – just the computed (aggregated) daily means.

Aquarius is a sophisticated system with many capabilities beyond what was briefly demonstrated here. Consult the on-line help and the additional resources below for more information on how to harness these capabilities for your park or network.

**Important Note:**

When you complete your Aquarius session by exiting Whiteboard (or closing the Springboard web page), be sure to also right-click on the Aquarius Assistant icon in the Task Bar and choose 'Exit' to free up the license you were using sooner for other would-be users.

**Additional Resources:**

The Aquatic Informatics support portal at [http://aquaticinformatics.com/main/%3FSupport\\_Login](http://aquaticinformatics.com/main/%3FSupport_Login) provides a lot of 'How To' videos for both Whiteboard and Springboard. To log into the Aquarius 360 support portal, you'll need a username and password which can be obtained via an email request to [support@aquaticinformatics.com](mailto:support@aquaticinformatics.com).